NOVEMBER/DECEMBER 2023

GCS31/DCS31— DISTRIBUTED OPERATING SYSTEM

Time : Three hours Maximum : 75 marks

SALEM INDUSTRIES ARTS & SCIENCE COLLEGE LIBRARY

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define operating system.
2. What is a process?
3. What is a real-time system?
4. Write the design issues for paging system.
5. What is physical address space?
6. What are necessary conditions for deadlock?
7. Define multimedia files.
8. List out the importance of virtualization.
9. What are the goals for system protection?
10. What is malware?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the various objectives and functions of operating system.

Or

(b) Describe inter process communication.

12. (a) What is virtual memory? Mention its advantages.

Or

(b) Write a note on directiories structure in file system.

13. (a) Describe about I/O software layers.

Or

(b) Explain different methods for handling deadlock.

14. (a) Give short notes on video and audio compression.

Or

(b) Write a note on multicomputers.

15. (a) Explain about security environment system.

Or

(b) Describe linux.

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is system calls in OS? Explain in detail with its types.

17. Discuss on file system implementation concept.

18. What is deadlock? Explain deadlock recovery in detail.

19. Elaborate on disk scheduling for multimedia.

20. Discuss on cryptography.

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